

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00629_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C1216XT-20L-xxK-ND-EX-TCY-NL
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Narrow Beam
[OTHER] No Lens
[OTHER] 19.9 Degree Beam Angle
[OTHER] Aimed at 0 Degrees
[LAMPCAT] N/A, 19mm LES
[LAMP] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1814
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.38
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27323	28554	28732
55	10860	9941	9047
65	1833	2107	1801
75	2027	2321	2140
85	2712	3012	3079

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863
5	4786.489	4913.805	4819.201	4846.595	4672.504	4528.730	4488.459	4253.381	4273.769	4105.573
10	2923.512	3091.624	2974.895	3029.049	2814.707	2644.434	2595.468	2334.886	2368.212	2208.552
15	1435.011	1527.980	1459.432	1505.102	1372.897	1290.416	1263.975	1143.653	1158.374	1090.389
20	861.335	886.890	868.185	882.367	837.914	814.143	806.670	780.104	783.042	769.185
25	729.396	737.612	734.393	735.259	727.792	717.650	712.604	706.945	705.849	707.715
30	689.592	700.409	698.720	698.432	694.143	687.235	680.591	670.956	672.586	674.525
35	639.716	655.045	652.822	657.420	640.396	626.500	614.975	585.918	588.791	569.554
40	470.486	501.594	494.480	510.790	480.335	444.311	426.038	381.934	370.685	347.056
45	275.668	294.072	288.088	302.480	289.878	268.103	255.985	233.116	222.202	217.658
50	183.815	186.626	173.125	186.686	175.605	169.832	169.705	165.098	163.688	166.092
55	88.877	92.775	81.357	83.350	74.042	71.000	74.570	71.672	73.569	73.153
60	23.276	27.020	24.506	23.411	19.948	21.224	21.889	22.877	23.900	22.983
65	11.056	9.791	12.707	10.807	10.863	12.511	14.629	16.513	14.235	15.205
70	7.934	6.156	9.662	9.076	8.082	14.201	15.068	13.931	13.653	14.031
75	7.484	7.795	8.573	7.938	7.902	13.839	15.707	14.363	14.742	17.286
80	7.340	6.628	7.332	6.610	6.233	14.127	14.631	15.918	14.434	13.792
85	3.372	4.070	3.746	4.152	3.829	12.229	11.091	12.195	11.420	11.105
90	0.974	0.558	1.213	0.592	0.967	7.641	2.334	6.558	2.403	7.828
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863	5427.863
5	4216.412	4136.061	4314.704	4540.548	4580.069	4811.853	4786.489
10	2318.685	2248.346	2425.716	2648.475	2698.446	2957.280	2923.512
15	1136.107	1100.912	1184.861	1288.646	1318.279	1456.083	1435.011
20	777.982	772.422	792.526	818.461	824.398	865.458	861.335
25	708.459	711.338	713.096	720.179	718.703	729.287	729.396
30	678.282	678.386	681.975	684.823	680.507	687.220	689.592
35	587.575	576.461	605.898	618.806	619.413	641.419	639.716
40	358.637	353.520	380.826	411.637	425.611	466.915	470.486
45	215.375	210.541	220.227	236.212	247.435	266.697	275.668

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES

CANDELA TABULATION - (Cont.)

50	166.983	161.087	170.515	174.401	172.187	186.868	183.815
55	76.740	74.731	80.182	84.022	77.148	91.284	88.877
60	24.833	21.026	22.867	21.185	20.044	23.869	23.276
65	15.516	14.375	16.176	8.588	9.792	9.560	11.056
70	14.299	12.628	12.455	8.145	8.928	8.178	7.934
75	14.671	13.383	14.608	6.343	7.339	7.275	7.484
80	13.387	14.255	14.376	5.468	5.787	6.431	7.340
85	9.828	10.634	11.727	3.462	3.771	3.983	3.372
90	3.122	7.556	6.330	0.311	1.339	0.599	0.974
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	783.16	N.A.	43.20
0-30	1122.55	N.A.	61.90
0-40	1488.55	N.A.	82.10
0-60	1778.91	N.A.	98.10
0-80	1805.12	N.A.	99.50
0-90	1812.92	N.A.	100.00
10-90	1437.87	N.A.	79.30
20-40	705.39	N.A.	38.90
20-50	917.24	N.A.	50.60
40-70	304.98	N.A.	16.80
60-80	26.21	N.A.	1.40
70-80	11.60	N.A.	0.60
80-90	7.81	N.A.	0.40
90-110	0.86	N.A.	0.00
90-120	0.86	N.A.	0.00
90-130	0.86	N.A.	0.00
90-150	0.86	N.A.	0.00
90-180	0.86	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1813.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	375.06
10-20	408.10
20-30	339.39
30-40	365.99
40-50	211.86
50-60	78.51
60-70	14.61
70-80	11.60
80-90	7.81
90-100	0.86
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES

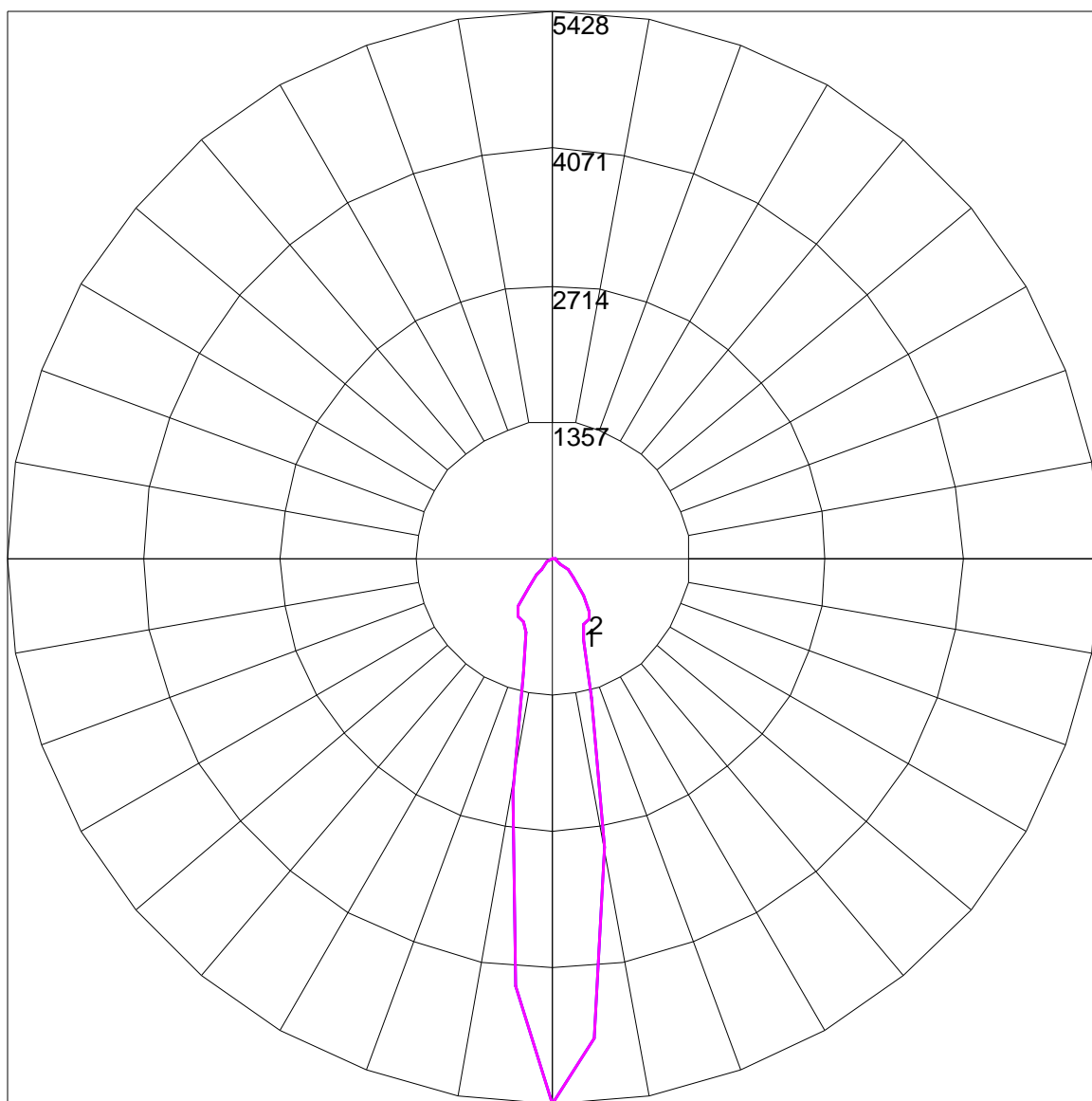
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	83	81	79
4	96	89	83	79	95	88	82	78	85	81	77	83	79	76	81	78	75	74
5	92	83	77	73	90	82	77	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	68	86	77	72	67	76	71	67	74	70	66	73	69	66	65
7	83	74	68	63	82	73	67	63	72	67	63	70	66	62	69	65	62	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00629 ~ C1216XT-20LXXK-NDEX-TCY-NLXXMW.IES

POLAR GRAPH



Maximum Candela = 5427.863 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)